

A new variation of *Agrias phalcidon fournierae* (Lepidoptera, Nymphalidae) with forewing trifid yellow patches

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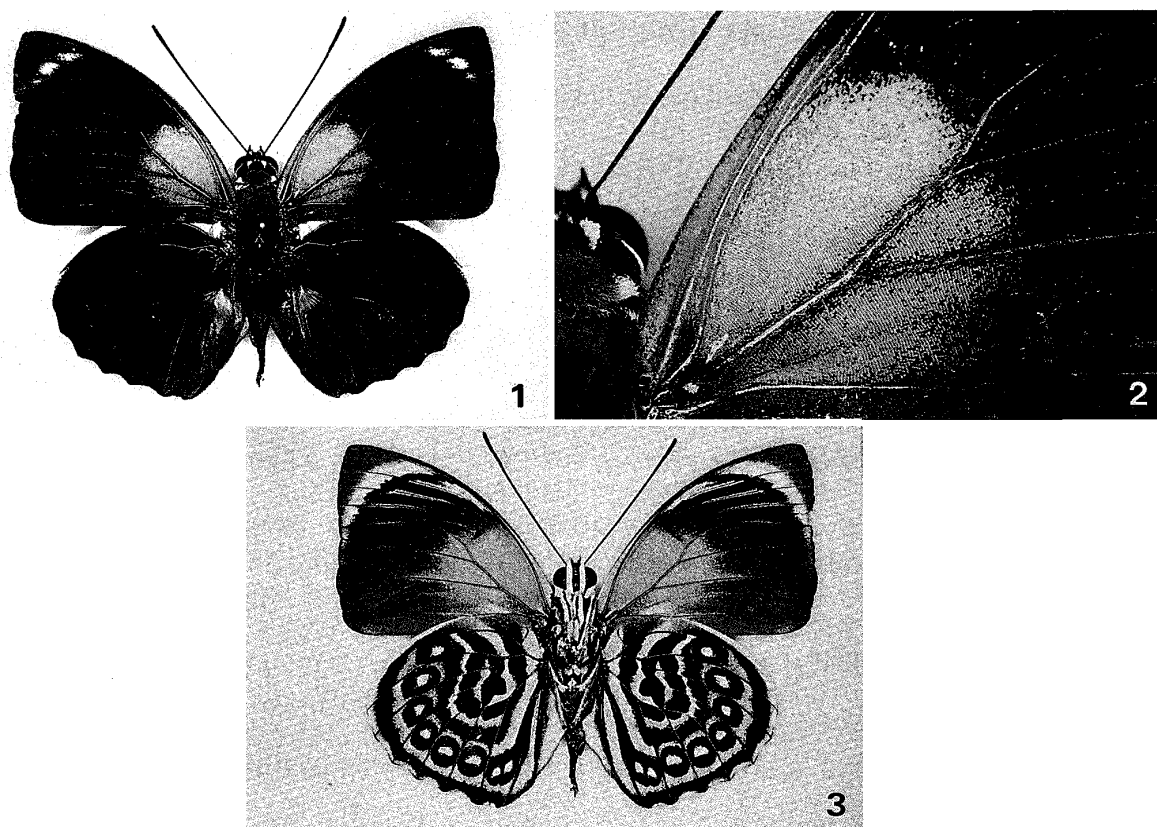
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Abstract A male *Agrias phalcidon fournierae* Fassl was found with forewing yellow patches slit into three parts by blue.

Key words *Agrias phalcidon fournierae* Fassl, new variation, var. *trifidus* nov., Nymphalidae.

A male *Agrias phalcidon fournierae* Fassl, collected at Nova Olinda do Norte, Brazil, in January, 1999, shows trifid yellow patches on forewing dorsal surface.

Fig. 1 shows the specimen in dorsal view with three subapical white spots and a basal yellow patch surrounded by extended discal deep blue. The yellow patch is slit into three parts by blue lines. The yellow is seen in the whole cell and basal part of discs 1b and 2. Extended deep blue is seen in discs 1b to 6 as well as in the cell on the hindwings. No discal yellow is seen on the hindwings.



Figs 1-3. A male *Agrias phalcidon fournierae* var. *trifidus* nov. with a forewing trifid yellow patch (Nova Olinda do Norte, Brazil). 1. Dorsal view. 2. Enlargement of right forewing. 3. Ventral view.

Fig. 2 shows a zoomed-in picture of the right forewing. The color of the patch is changed from yellow to red-purple on the border. Yellow scales are seen on the central vein between the cell and discs. Blue scale lines are seen on both sides of the central vein reaching to the base. These two blue lines seem to join into a blue slit in the yellow patch macroscopically. Blue scales fill the narrow space between veins 11 and 12. Blue scales are seen in the base of the cell as well as in the base of disc 1b. Red-purple scales are seen among blue scales on vein 2. Many red-purple scales are seen in basal part of disc 1a.

Fig. 3 shows the specimen in ventral view. A typical black pattern of *Agrias phalcidon* is seen on the hindwing. Forewing yellow patch invades the whole cell and basal parts of discs 1b to 4, just as a typical *A. p. fournierae* does.

A. p. fournierae shows a yellow patch extending from costal margin to inner margin on the forewing dorsal surface. The yellow patch invades the whole cell and basal parts of discs 1a to 3 (Rebillard, 1961; Barselou, 1983). The present specimen shows a smaller yellow patch than a typical *A. p. fournierae* butterfly does. No yellow scale is seen in discs 1a and 3 on the dorsal surface macroscopically. However, many red-purple scales are seen in the disc 1a in the zoomed-in picture. The yellow patch is also very large on ventral surface. These suggest that present specimen belongs to *A. p. fournierae*. A variation has been described as *A. p. fournierae* var. *signata* Michael that has a small yellow patch with invasion of a black line on forewing dorsal surface. The present specimen has a trifid yellow patch with blue slits, and is different from the *signata* variation. The authors name this butterfly as var. *trifidus* nov.

References

- Barselou, P. E., 1983. *The Genus Agrias. A taxonomic and illustrated Guide.* 96 pp., 15 pls. Sciences Nat. Compiegne.
 Rebillard, P., 1961. Révision systématique des Lépidoptères Nymphalides du genre *Agrias*. *Mém. Mus. natn. Hist. nat. Paris (A)* **22**: 157-254.

摘 要

前翅三裂黄色斑を持つフルニエアグリアスの新変異体 (鱗翅目, タテハチョウ科) (新井久保・井上武夫)

1999年1月にブラジルのノヴァオリンダドノルテで採集された雄フルニエアグリアスの前翅黄色斑は、青色線によって中室、1b室及び2室に三分され、今までに報告されたことがない特異な変異体であるので、*Agrias phalcidon fournierae* var. *trifidus* nov. と名付け報告する。

フルニエアグリアスの前翅黄色斑は前縁から下縁まで拡がり、1a、1b、2室と3室の一部に及んでいる。他方、ピオラ型フルニエアグリアスの黄色斑は前縁から中室までにとどまっている。近年、両者の中間型といえる黄色斑が中室からはみ出した個体が採集されるようになり、黒色線が黄色斑内へ侵入している変異体 *signata* が知られている。本記載の個体では、黄色斑は前縁から1b室と2室まで拡がり、その外縁は赤紫色になっている。拡大写真では1a室基部にも多くの赤紫色鱗粉が認められる。典型的なフルニエよりは狭い黄色斑ではあるが、フルニエの範疇に入ると思われる。拡大写真では中室下縁の中央翅脈上には黄色鱗粉が認められる。翅脈をはさんで上下には青色鱗粉が線状に並び基部まで続いている。青線は上より下のほうが太い。11室、中室、1b室の基部は各々青色鱗粉で充たされている。第2翅脈上には赤紫色鱗粉が青色鱗粉に混ざって認められる。中央翅脈上下の青色鱗粉が肉眼的には一本の太い青色線として写り、黄色斑を大きく上下に裂いていると考えられる。

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